**1 Use a program design language to produce the design for the validation routines. Perform all validation as required for the design. Any assumptions you make about the design must be documented.**

**Answer:**

[**Structure chart**](structure%20chart.docx)

[**Index.html**](index.docx)

[**App.js**](app.docx)

[**Validator.js**](Validator.docx)

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| **Validation** | **Reference** |
| Membership Number (numeric) | Ref to index.html’s 32-33 lines |
| Membership Number (6 digits) | Ref to app.js 20-39 lines |
| Membership Number (modulus 11) | Ref to validator’s 224-251 lines |
| Sex must be F or M | Ref to index.html’s112-117 lines |
| Membership type must be F, S, T or B | Ref to index.html’s 54-57 lines |
| Invalid Date of Birth | Ref to validator’s 118-129 lines |
| Invalid Join Date | Ref to validator’s 134-145 lines |
| Subscription month invalid | Ref to validator’s 194-207 lines |